PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 261 AND MD 260 IN CALVERT COUNTY. IT IS ASSUMED THAT MD 261 RUNS IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THIS INTERSECTION CURRENTLY OPERATES IN A NEMA FOUR-PHASE FULL-TRAFFIC-ACTUATED MODE WITH AN EXCLUSIVE-PERMISSIVE LEFT TURN PHASE FOR NORTHBOUND MD 261. A RIGHT TURN OVERLAP PHASE FOR MD 261. AND AN EXCLUSIVE PEDESTRIAN PHASE FOR BOTH THE SOUTH LEG AND WEST LEG OF THE INTERSECTION.

CONTROLLER REQUIRMENTS

INSTALL A FULL-TRAFFIC-ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER WITH VIDEO DETECTION INTERFACE EQUIPMENT, INTERSECTION MONITOR WITH BATTERY BACK-UP FOR PHONE DROP, FOUR CHANNEL LOOP DETECTOR AMPLIFIER RACK AND ASSOCIATED HARNESS HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET. AN APS CENTRAL CONTROL UNIT WILL BE INSTALLED BY THE CONTRACTOR.

SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410)787-7631 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS. ZIP CODE. AND PHONE NUMBER.

PROJECT CONTACTS

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MS. KIMBERLY TRAN ASSISTANT DISTRICT ENGINEER - TRAFFIC (410) 841-1019

MR. JOHN MAYS ASSISTANT DISTRICT ENGINEER - UTILITIES (410) 841-1005

MR. CHARLES GEORGE ASSISTANT DISTRICT ENGINEER - MAINTENANCE (410) 841-1013

CONTACT PERSONS FOR OOTS ARE AS FOLLOWS:

MR. RICHARD DAFF. SR. CHIEF TRAFFIC OPERATIONS (410) 787-7630

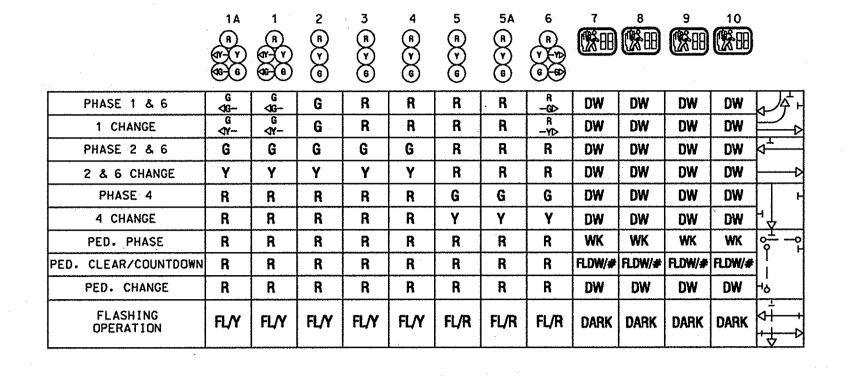
MR. ED RODENHIZER CHIEF. SIGNAL OPERATIONS (410)787-7630

MR. MIKE STOCKER SIGNAL SHOP WAREHOUSE (410) 787-7696

MR. ROBERT SNYDER ASSISTANT DIVISION. CHIEF TRAFFIC OPERATIONS (410) 787-7630

MR. EUGENE BAILEY. CHIEF SIGN OPERATIONS (410) 787-7676

PHASE CHART



0.4.77.000.	A. EQUIPMENT TO BE SUPPLIED BY THE SHA.			
CODE NO.	DESCRIPTON	UNIT		
900000 963010 971017 973023	VIDEO INTERFACE EQUIPMENT FOUR CHANNEL LOOP DETECTOR AMPLIFIER, RACK MOUNT EIGHT PHASE (FULLY ACTUATED) CONTROLLER AND CABINET- BASE MOUNT SHEET ALUMINUM SIGNS - POLE/MAST ARM MOUNT	EA EA SF		
	CONSISTING OF:			
	2 - D3-2 DUAL FACE (VAR. X 16") MAST ARM MOUNT			
	1 - ONE PIECE SHIELD ASSEMBLY ON A BLACK BACKGROUND (30" X 51") POLE MOUNT M3-4 (24" X 12") M1-5 (30" X 24") M6-1 (21" X 15")			
	2 - R10-4(1) (9"X12" - BAYSIDE RD) POLE MOUNT 2 - R10-4(1) (9"X12" - CHESAPEAKE BCH RD) POLE MOL	: JNT		

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FUNISHED AND/OR INSTALLED BY THE CONTRACTOR.

QUANTITY

DESCRIPTON

CATEGORY

CODE NO.

QUANTITY

	CODE NO.	DESCRIT TON	ONTI	GOMITTIT
	203030	TEST PIT EXCAVATION	CY	6
	585620	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED	LF.	470
		THERMOPLASTIC PAVEMENT MARKING	LF	
	585624	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING	SF	75
	655104	4 INCH CONCRETE SIDEWALK	CY	32
	801004			
	802501	CONCRETE FOR SIGNAL FOUNDATION NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	1-5	270
	805115	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED		
	805125	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED		25
	805135	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED		
		4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED		
	805140		LF	20
	805145	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED	LF	
	805150	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED	LF	55
	805155	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED		220
	807202	METERED SERVICE PEDESTAL	EA	
	810010	ELECTRICAL CABLE 1-CONDUCTOR NO. 4 AWG-THHN/THWN		
	810601	NON-INVASIVE DETECTOR. 500 FOOT LEAD-IN	EA	
	810610	NON-INVASIVE DETECTOR, CARRIER PIPE		
	811001	FURNISH AND INSTALL ELECTRICAL HANDHOLE		10
	813015	INSTALL OVERHEAD SIGN	SF	37
	816001	VIDEO DETECTION CAMERA	EΑ	3 3
	816005	CONTROL CABLE. 250 FOOT. VIDEO DETECTION CAMERA	EA	3
		TO CONTROLLER		
	818004	10 FT. BREAKAWAY PEDESTAL POLE	EΑ	2
	818041	STEEL POLE WITH A SINGLE 60 FOOT MAST ARM	EA	1
	818052	STEEL POLE WITH A SINGLE 70 FOOT MAST ARM	EA	1 .
	831010	250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE	EA	2
	837001	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH	EA	7
	800000	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	30
	861105	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	315
	861107	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	615
	861108	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	600
,	861116	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)	LF	315
	800000	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION	EA	4
	871117	INSTALL EIGHT PHASE (FULLY ACTUATED) CONTROLLER AND		1
		CABINET - BASE MOUNT		· .
	800000	16 INCH PEDESTRIAN COUNTDOWN SIGNAL HEAD	ΕA	4
	800000	REMOVE AND DISPOSE OF MATERIAL AND EQUIPMENT	LS	1
	800000	RELOCATE SIGNAL HEAD	EA	12
	800000	AUDIBLE/TACTILE PEDESTRIAN BASE	ĒĀ	1
		· · · · · · · · · · · · · · · · · · ·		•

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND RETURNED TO SHA.

SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME PROPERTY OF THE CONTRACTOR.

WIRING KEY

A.B.Z VIDEO DETECTION 250 FT. PRE-MANUFACTURED CABLE

C.D MICRO-LOOP PROBE 500 FT. LEAD-IN

E.F.G.H 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

J,Y 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG)

K.L.M.N. 5-CONDUCTOR ELECTRICAL P.R.S.T CABLE (ND. 14 AWG)

U, V, AA, 7-CONDUCTOR ELECTRICAL CABLE (ND. 14 AWG)

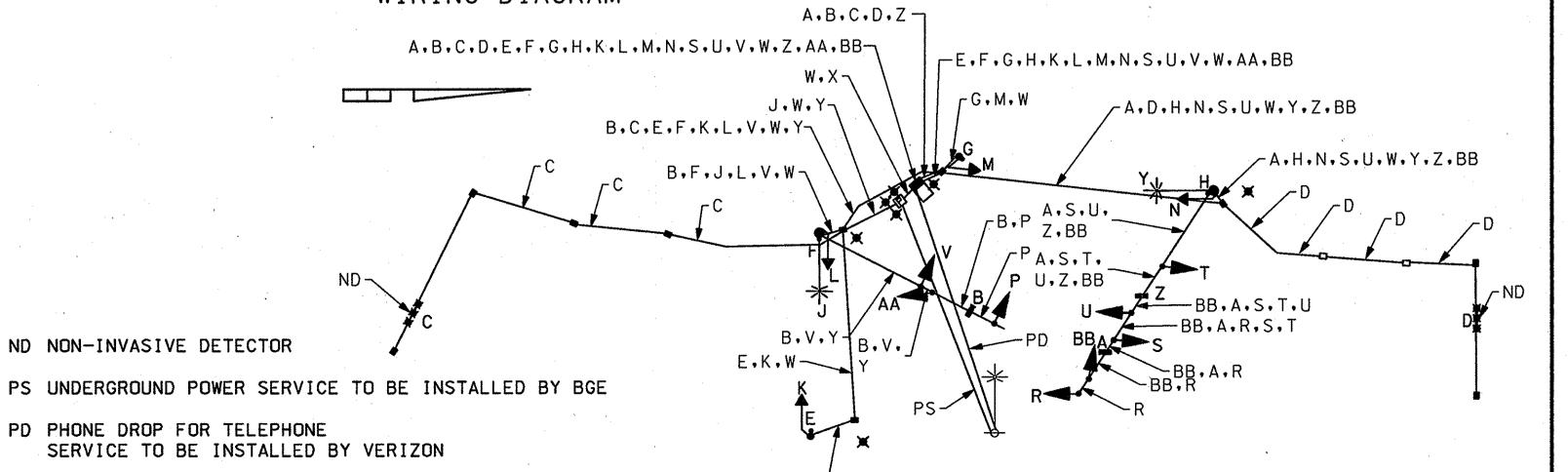
STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)

1-CONDUCTOR ELECTRICAL CABLE (NO. 4 AWG -THHN/THWN. 3 - RUNS)

WIRING DIAGRAM

ND NON-INVASIVE DETECTOR

▼ GROUND ROD



E.K.W

ADDENDUM NO. 2 3/30/06

REPLACES SHEET 105

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 260 (CHESAPEAKE BEACH RD) AND MD 261 (BAYSIDE RD) CHESAPEAKE BEACH, MARYLAND

GENERAL INFORMATION SHEET

RUMMEL, KLEPPER & KAHL, LLP

CONSULTING ENGINEERS 81 MOSHER STREET BALTIMORE, MARYLAND 21217

SCALE NONE DATE 8/2005 CONTRACT NO. CA4815184 COUNTY CALVERT

DESIGNED BY HEH/MLH LOGMILE 04261006.07 DRAWN BY MLH CHECKED BY DAE TIMS NO. H420 FAP NO. _____N/A__ TOD NO.

TS NO. TS-12E DRAWING SHEET NO. 105A OF 146 ELE:(410)728-2900 FAX:(410)383-3270